Amendments

In the Claims:

Please substitute the following claim 1 for the currently pending claim 1:

1. (Twice amended) A coating composition comprising the product of the reaction of:

a silane having at least one functional group selected from the group consisting of an isocyanate, an isothiocyanate, an ester, an anhydride, an acyl halide, an alkyl halide, an epoxide and an aziridine; and

a biopolymer,

wherein said product is capable of directly coating a surface of a substrate by covalent attachment of said silane to said substrate.

Please add the following claims:

14. (New) A coating composition consisting essentially of the product of the reaction of:

a silane having at least one functional group selected from the group consisting of an isocyanate, an isothiocyanate, an ester, an anhydride, an acyl halide, an alkyl halide, an epoxide and an aziridine; and

a biopolymer.

15. (New) The coating composition of claim 14, wherein said functional group is an isocyanate.

16. (New) The coating composition of claim 15, wherein said biopolymer is heparin-tridodecylmethylammonium chloride.

17. (New) The coating composition of claim 14, wherein said biopolymer is a complex selected from the group consisting of heparin-tridodecylmethylammonium chloride, heparin-benzalkonium chloride, heparin-stearalkonium chloride, heparin-poly-N-vinyl-pyrrolidone, heparin-lecithin, heparin-didodecyldimethylammonium bromide, heparin-pyridinium chloride, and heparin-synthetic glycolipid complex.

18. (New) The coating composition of claim 14, wherein said biopolymer has hydroxyl or amine functional groups.

19. (New) The coating composition of claim 14, wherein said biopolymer comprises heparin.

20. (New) The coating composition of claim 14, wherein said biopolymer is provided in a form capable of dissolving in an organic solvent.

21. (New) The coating composition of claim 14, wherein the biopolymer provides thromboresistance.

22. (New) The coating composition of claim 14, wherein said biopolymer is heparin-tridodecylmethylammonium chloride.

23. (New) The coating composition of claim 14, further comprising at least one additive selected from the group consisting of wetting agents, surface active agents and film forming agents.

24. (New) The coating composition of claim 14, wherein said silane has an organic chain between isocyanate and silane functional groups.

25. (New) The coating composition of claim 1, wherein said silane and said biopolymer are reacted in a common solvent.

26. (New) The coating composition of claim 25, wherein said solvent is an anhydrous organic solvent.

27. (New) The coating composition of claim 26, wherein said solvent is tetrahydrofuran.

28. (New) The coating composition of claim 14, wherein said silane and said biopolymer are reacted in a common solvent.

29. (New) The coating composition of claim 28, wherein said solvent is an anhydrous organic solvent.

30. (New) The coating composition of claim 29, wherein said solvent is tetrahydrofuran.

31. (New) The coating composition of claim 25, wherein said functional group is an isothiocyanate, said biopolymer is heparin-tridodecylmethylammonium chloride, and said organic solvent is tetrahydrofuran.

32. (New) The coating composition of claim 28, wherein said functional group is an isothiocyanate, said biopolymer is heparin-tridodecylmethylammonium chloride, and said organic solvent is tetrahydrofuran.

33. (New) The coating composition of claim 14, wherein said product is capable of directly coating a surface of a substrate by covalent attachment of said silane to said substrate.